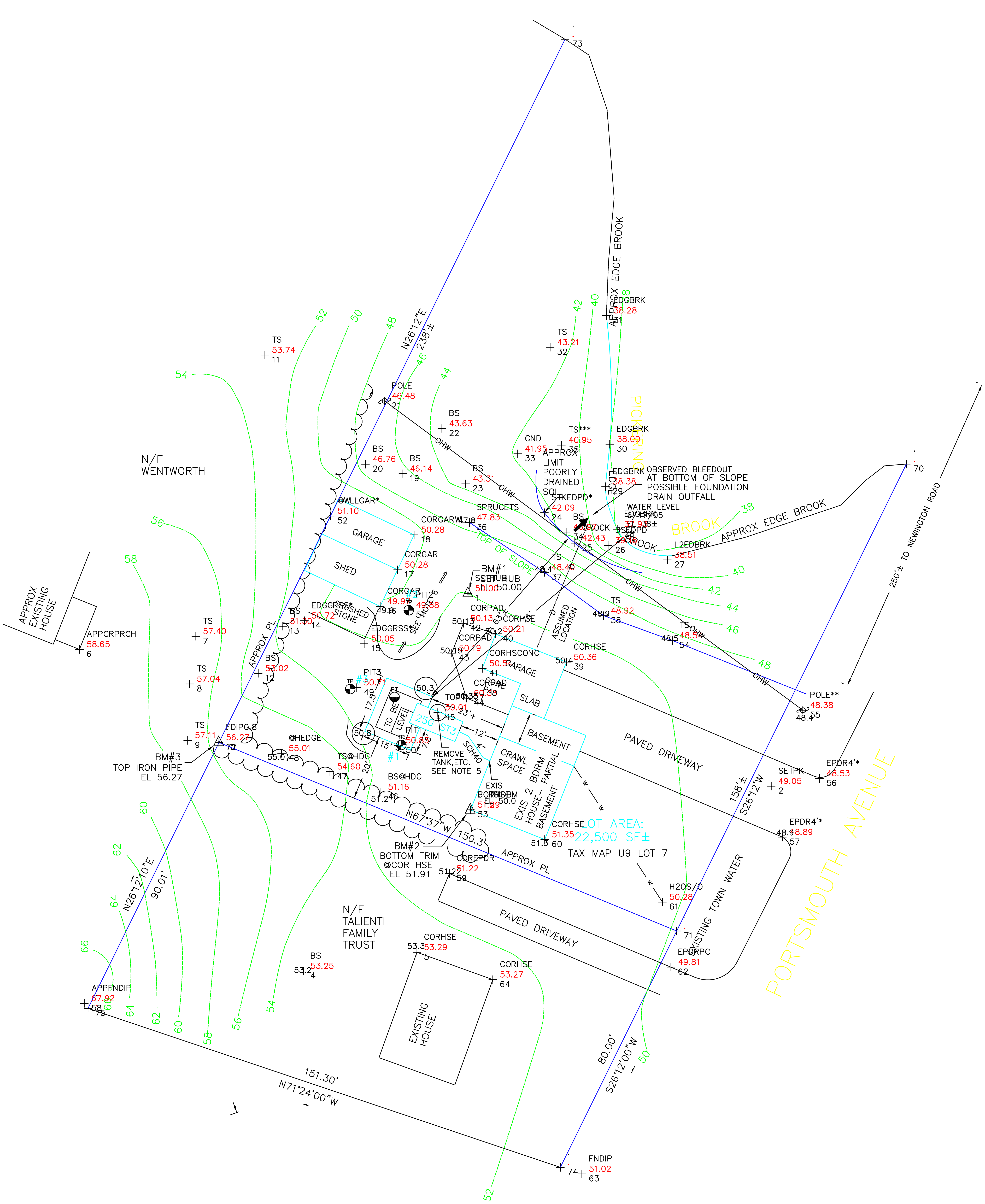

N/F
WENTWORTH
N/F
TALIENTI
FAMILY
TRUST
APPROX
EXISTING
HOUSE
EXISTING
HOUSE
PORTSMOUTH AVENUE
PICKERING BROOK
APPROX EDGE BROOK
250'± TO NEWINGTON ROAD
LOT AREA:
22,500 SF±
TAX MAP U9 LOT 7
PAVED DRIVEWAY
EXISTING TOWN WATER
BM#3
TOP IRON PIPE
EL 56.27
BM#2
BOTTOM TRIM
@COR HSE
EL 51.91
OBSERVED BLEEDOUT
AT BOTTOM OF SLOPE
POSSIBLE FOUNDATION
DRAIN OUTFALL
APPROX
LIMIT
POORLY
DRAINED
SOIL
REMOVE
TANK,ETC.
SEE NOTE 5
TOP OF SLOPE
APPROX PL
N26°12'10"E
90.01'
151.30'
N71°24'00"W
80.00'
S26°12'00"W
158'±
S26°12'W
N67°37"W
150.3'
N26°12"E
238'±

Command= 210-
Point#, Start#-End# or G#= 1-100

Bearing	Distance	Elev	Descrip	Pnt.	Northing	Easting	Type
------------------------		-12-31-2023-----		12:43:20-----		-----D:	...\BMHOME2
		50.00	SETHUB	1	4960.7077	4866.8867	
		49.05	SETPK	2	4902.1914	4958.9545	TRA
		51.29	CORHSE	3	4894.9921	4867.6495	SS
		53.25	BS	4	4846.0565	4816.8855	SS
		53.29	CORHSE	5	4851.7469	4851.3707	SS
		58.65	APPCRPRC	6	4943.7212	4748.9235	SS
		57.40	TS	7	4947.6773	4784.2376	SS
		57.04	TS	8	4933.2130	4782.3769	SS
		57.11	TS	9	4916.0935	4781.7930	SS
		56.27	FDIP0.8	10	4915.4676	4791.2662	SS
		53.74	TS	11	5033.0960	4805.1952	SS
		53.02	BS	12	4936.4499	4803.1895	SS
		51.30	BS	13	4950.7565	4810.6402	SS
		50.72	EDGGRSS*	14	4952.4330	4817.2010	SS
		50.05	EDGGRSS*	15	4945.4344	4835.3506	SS
		49.97	CORGAR	16	4956.7888	4840.2131	SS
		50.28	CORGAR	17	4967.9025	4845.5048	SS
		50.28	CORGARWL	18	4978.4967	4850.5092	SS
		46.14	BS	19	4997.0871	4847.1048	SS
		46.76	BS	20	4999.9757	4835.7574	SS
		46.48	POLE	21	5019.1651	4841.5802	SS
		43.63	BS	22	5010.7847	4858.9630	SS
		43.31	BS	23	4994.0092	4866.1344	SS
		42.09	STKEDPD*	24	4985.2232	4890.0972	SS
		42.43	@ROCK	25	4976.0019	4899.3217	SS
		39.16	BSEDPD	26	4975.2957	4909.4248	SS
		38.51	L2EDBRK	27	4970.8789	4927.4080	SS
		37.93	EDGBRK	28	4980.2151	4912.1740	SS
		38.38	EDGBRK	29	4993.1424	4908.6640	SS
		38.00	EDGBRK	30	5006.0288	4909.9099	SS
		38.28	EDGBRK	31	5045.0844	4908.9048	SS
		43.21	TS	32	5035.4508	4891.8133	SS
		41.95	GND	33	5003.1165	4881.9962	SS
		40.97	BS	34	4979.3552	4896.6826	SS
		40.95	TS***	35	5005.7740	4895.2332	SS
		47.83	SPRUCETS	36	4982.2325	4867.3607	SS
		48.40	TS	37	4967.1154	4890.0778	SS
		48.92	TS	38	4953.9544	4908.0565	SS
		50.36	CORHSE	39	4939.8688	4896.7923	SS

JOB #2 445CHAPLINE [100]

Bearing	Distance	Elev	Descrip	Pnt.	Northing	Easting	Type
-------------------------		12-31-2023-----		12:43:20	-------------------	D:...	\BMHOME2
		50.21	CORHSE	40	4948.3837	4875.2966	SS
		50.54	CORHSCON	41	4937.9540	4871.2060	SS
		50.13	CORPAD	42	4951.6564	4865.4796	SS
		50.19	CORPAD	43	4942.6021	4861.9368	SS
		50.33	CORPAD	44	4928.9105	4866.4642	SS
		50.01	TOPTNK.7	45	4924.5530	4857.7147	SS
		51.16	BS@HDG	46	4900.4372	4840.4591	SS
		54.60	TS@HDG	47	4906.5911	4824.9889	SS
		55.01	@HEDGE	48	4912.1729	4810.2735	SS
		50.71	PIT3	49	4932.1267	4833.1052	SS
		50.83	PIT1	50	4914.5532	4845.8080	SS
		49.88	PIT2	51	4955.6179	4848.8927	SS
		51.10	@WLLGAR*	52	4984.2415	4825.0977	SS
		51.91	BOTSIDBM	53	4894.9923	4867.6686	SS
		48.54	TS	54	4946.4369	4928.9138	SS
		48.38	POLE**	55	4925.2489	4968.5644	SS
		48.53	EPDR4'*	56	4904.5352	4973.5880	SS
		48.89	EPDR4'*	57	4886.7224	4962.3626	SS
		67.92	APPFNDIP	58	4836.2360	4750.3845	SS
		51.22	COREPDR	59	4875.6618	4861.2419	SS
		51.35	CORHSE	60	4885.9831	4890.1786	SS
		50.28	H2OS/O	61	4866.9969	4925.9044	SS
		49.81	EPDRPC	62	4847.2370	4928.4976	SS
		51.02	FNDIP	63	4784.4430	4901.4498	SS
		53.27	CORHSE	64	4843.4389	4874.4155	SS
			CALCOR	65	4787.1664	4893.5063	TRA
				66	4858.2332	4930.2421	INT
				70	5000.0000	5000.0000	
				71	4858.2332	4930.2421	TRA
				72	4915.4676	4791.2662	TRA
				73	5129.0151	4896.3445	TRA
				74	4786.4525	4894.9216	TRA
				75	4834.7111	4751.5242	TRA
				76	4719.1581	4861.8087	TRA
				77	4734.5770	4702.2522	TRA

Point#, Start#-End# or G#= 4-

APPROVAL FOR CONSTRUCTION

N.H. DEPARTMENT OF ENVIRONMENTAL SERVICES
SUBSURFACE SYSTEMS BUREAU
CA2005074334 P.O. BOX 95, 29 HAZEN DRIVE, CONCORD, NH 03302-0095

APPROVAL NO: CA2005074334

THE PLANS AND SPECIFICATIONS FOR SEWAGE OR WASTE DISPOSAL SYSTEM SUBMITTED FOR:

OWNER:
WILLIAM CHAPLINE
170 PORTSMOUTH AVE
GREENLAND NH 03840-

Map No./Lot No.: U9 / 7
Subd. Appvl. No.: PRE67
Subd. Name:
County: ROCKINGHAM
Registry Book No.: 3217
Registry Page No.: 2389
Probate Docket No.: (If Applicable)

COPY SENT TO:
BUILDING INSPECTOR
PO BOX 100
GREENLAND NH 03840

Type of System: N
2 BR
300 GPD

Town/City Location: GREENLAND

BY APPLICANT: PERMIT NO. 00348
STOCKTON SERVICES
PO BOX 1306
HAMPTON NH 03843-1306

Street Location: 170 PORTSMOUTH AVENUE

Subsurface waste disposal systems must be operated and maintained in a manner so as to prevent nuisance or health hazard due to system failure. (RSA 485-A:37)

It is unlawful to discharge any hazardous chemicals or substances into subsurface waste disposal systems. Included are paints, thinners, gasoline and chlorinated hydrocarbon solvents such as TCE, sometimes used to clean failed septic systems and auto parts. (Env-Ws 1503.04)

ADVISE YOUR CONTRACTOR OF REQUIRED CHANGES IN PLANS AS INDICATED BELOW CONDITIONS

1. THIS APPROVAL IS VALID FOR 90 DAYS FROM DATE OF SAID APPROVAL, PER ENV-WS 1003.19.
2. THIS APPROVAL IS GRANTED ONLY TO IMPROVE AN EXISTING SITUATION.
3. APPROVED WITH A MUNICIPAL WATER SUPPLY ONLY.
4. DESIGNER TO VERIFY FIELD LOCATION PRIOR TO CONSTRUCTION.
5. WAIVERS GRANTED.

Approved this date: 08/05/2005 By: ERIC J THOMAS
N.H. Department of Environmental Services Staff

Date amended: Amended by: (OVER)

REVISED 8/01

APPLICANT'S

200505917

ROOTS TO 3'+

CA2005074334

PT PERC TEST DATA

RECEIVED AUG 0 4 2005 By

6/7/05 ESTIMATED PERC RATE: 10–15 MIN/IN @24" DEPTH

DESIGN LOADING: EXISTING 2 BEDROOM HOUSE

AREA REQUIRED: 75 SF PER WWAI SPECIFICATIONS

AREA PROPOSED: 240 SF PROVIDED

REVIEWED AND APPROVED IN ACCORDANCE WITH THE REQUIREMENTS OF NH DEPT OF ENVIRONMENTAL SERVICES WATER DIVISION
Signed Eric Thomas
Date 8-5-05

ADVISE YOUR CONTRACTOR OF REQUIRED CHANGES IN PLANS AS INDICATED ON THIS CONDITIONAL APPROVAL.

PROPOSED REPLACEMENT
SEPTIC SYSTEM PLAN
EXISTING FAILED SYSTEM

LOCUS: 170 PORTSMOUTH AVENUE
GREENLAND, NH

OWNER: WILLIAM CHAPLINE
170 PORTSMOUTH AVENUE
GREENLAND, NH 03840

NEW HAMPSHIRE Designer of Subsurface Disposal Systems
Ann W. Bialobrzeski No. 348
Water Supply & Pollution Control

APPLICANT:
STOCKTON SERVICES
PO BOX 1306
HAMPTON, NH 03843-1306

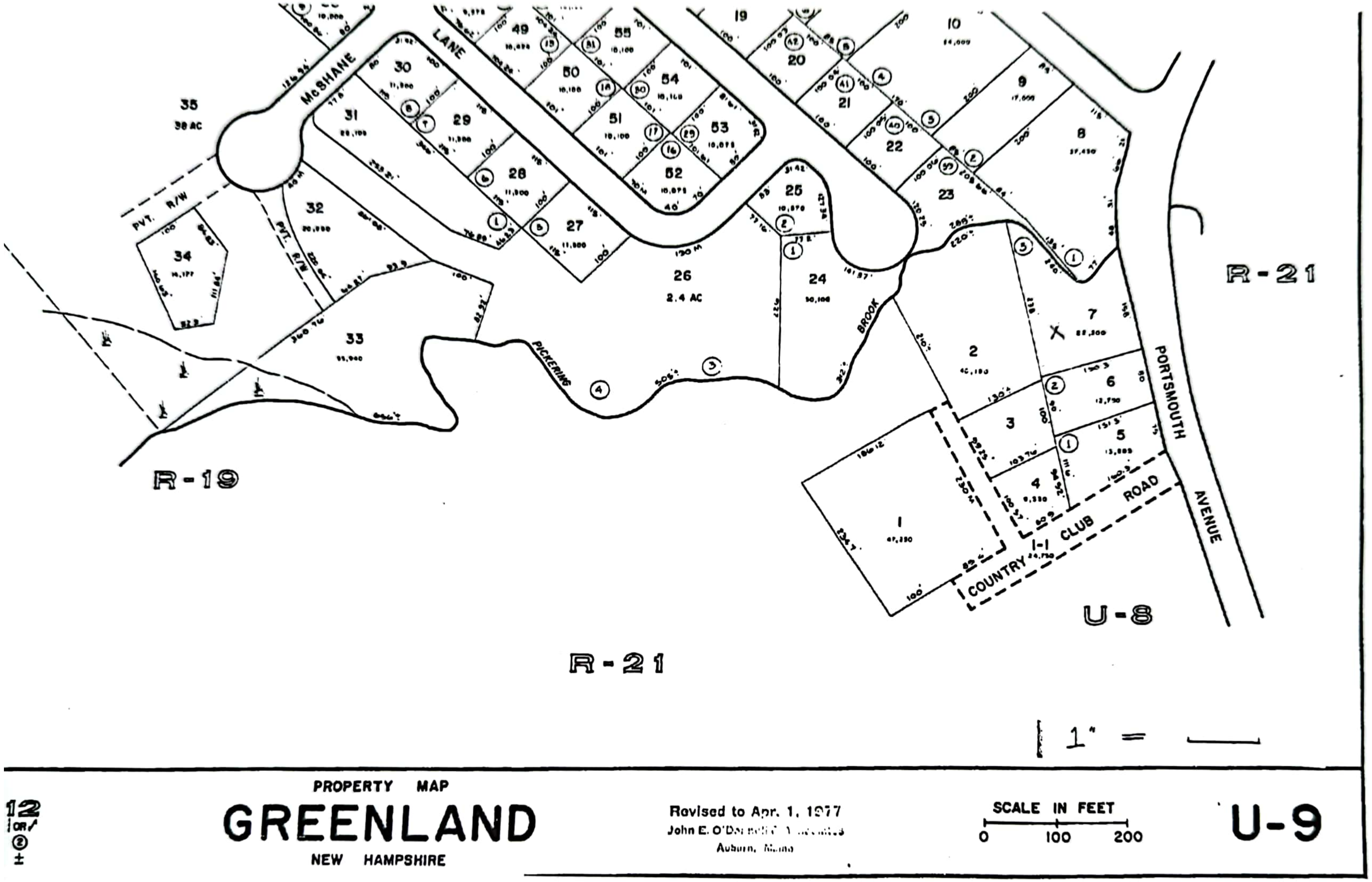
DATE: JULY 28, 2005

APPROVAL:

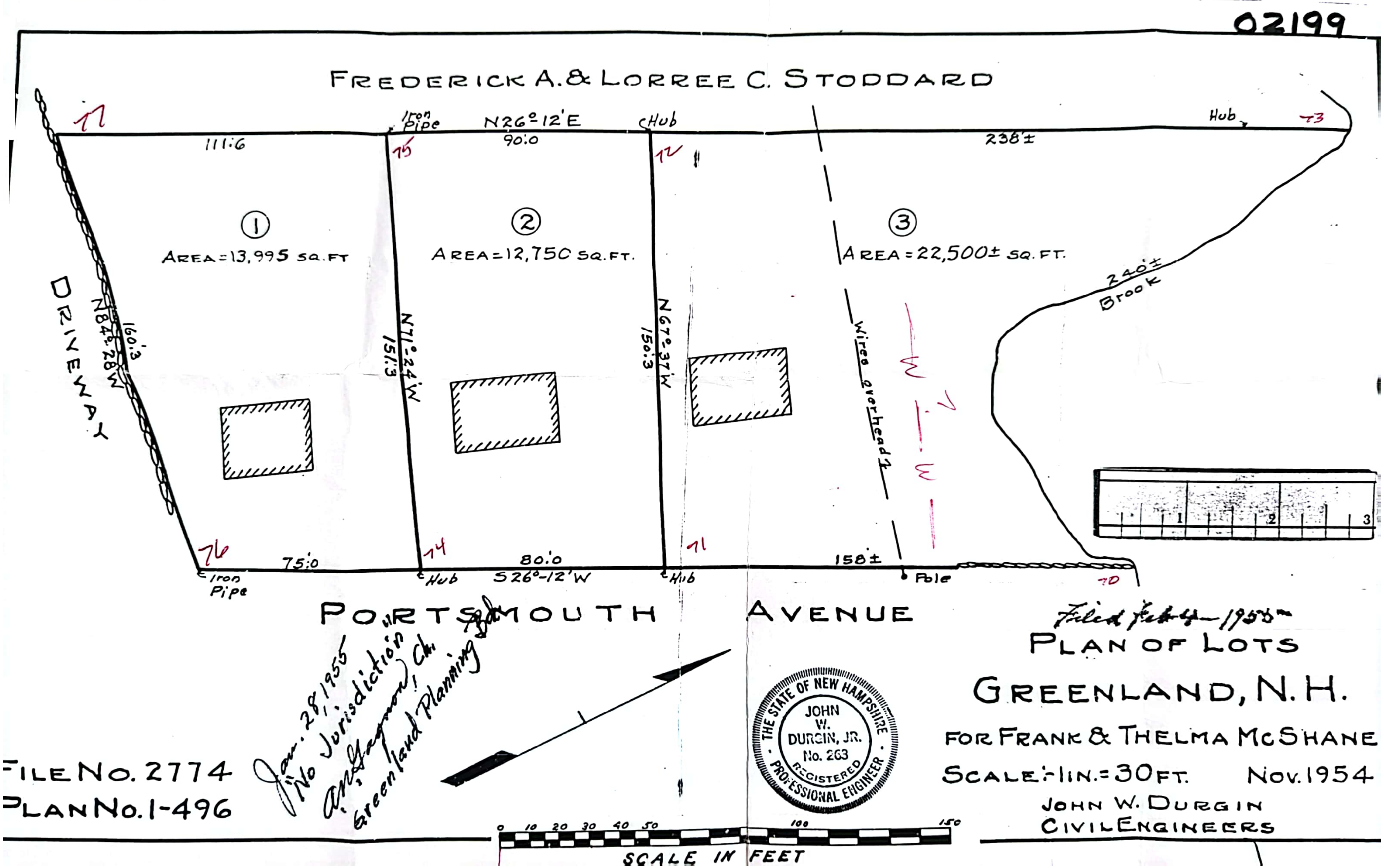
...DE
...US
LINES
...JECTS SHALL
...EABLE ODORS OCCUR.
...EN.

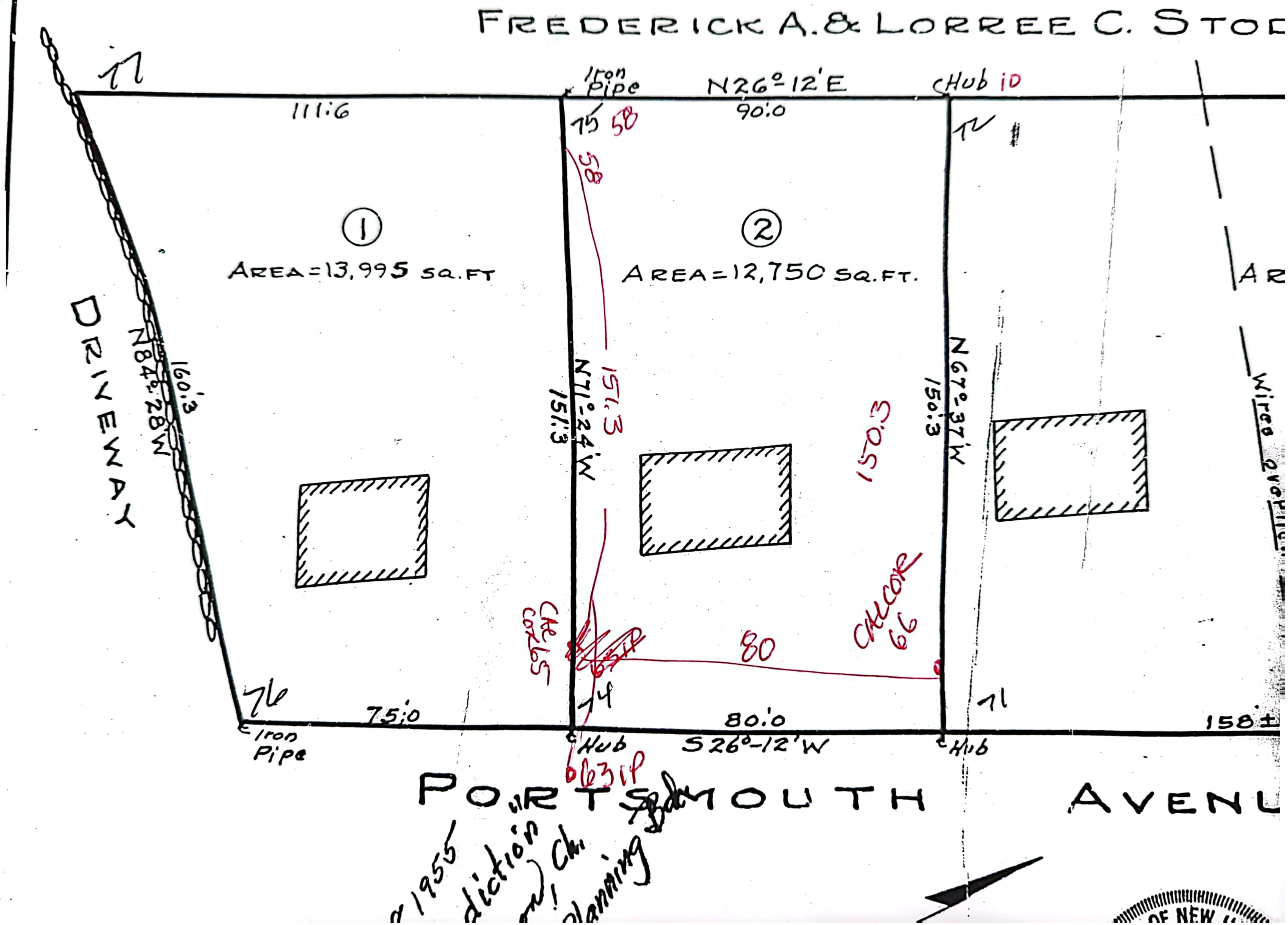
454

WRONG JOB # SHOULD BE 445



Pickering Brook is NOT ON 4th ORDER OR HIGHER LIST SHORELAND PROTECTION


02199
FREDERICK A. & LORREE C. STODDARD
Iron Pipe
N26° 12' E
Hub
Hub
111.6
90.0
238±
①
AREA = 13,995 SQ. FT
②
AREA = 12,750 SQ. FT.
③
AREA = 22,500± SQ. FT.
240'±
Brook
DRIVEWAY
N84° 28' W
160.3
N71° 24' W
151.3
N67° 37' W
150.3
Wires overhead
75.0
80.0
158±
Iron Pipe
Hub
S 26° - 12' W
Hub
Pole
PORTSMOUTH AVENUE
Filed Feb 4 - 1955
Jan. 28, 1955
"No Jurisdiction"
Greenland Planning Bd
PLAN OF LOTS
GREENLAND, N.H.
FOR FRANK & THELMA MCSHANE
SCALE: 1 IN. = 30 FT.
NOV. 1954
JOHN W. DURGIN
CIVIL ENGINEERS
THE STATE OF NEW HAMPSHIRE
JOHN W. DURGIN, JR.
No. 263
REGISTERED
PROFESSIONAL ENGINEER
FILE NO. 2774
PLAN NO. 1-496
0 10 20 30 40 50 100 150
SCALE IN FEET



FREDERICK A. & LORREE C. STOD
Iron Pipe
N26°-12'E
90.0
Hub
111.6
①
AREA=13,995 SQ.FT
②
AREA=12,750 SQ.FT.
DRIVEWAY
N84°-28'W
160.3
N71°-24'W
151.3
N67°-37'W
150.3
75.0
80.0
S26°-12'W
Iron Pipe
Hub
Hub
158±
PORTSMOUTH AVENU
Wires

1383-416

1383 416

KNOW ALL MEN BY THESE PRESENTS that Edward J. Austin and Kathleen L. Austin, both of Portsmouth

Rockingham County State

New Hampshire, for consideration paid, grant to Frank McShane and Thelma McShane

of Greenland Rockingham County, State of

, with QUITCLAIM COVENANTS.

(Description and incumbrances, if any)

A right-of-way to lay, maintain, operate, remove, and replace a pipe line for the transportation of water on, over, and through a certain parcel of land located on the westerly side of Route 151 in Greenland, New Hampshire, so-called, which said pipe line shall enter the grantor's premises at a point approximately ninety (90) feet northeasterly from the hub at the southeasterly corner of lot #3 as shown on a plan entitled "Plan of Lots, Greenland, N. H., for Frank and Thelma McShane, dated November 1954, John W. Durgin, Civil Engineer", recorded in Rockingham County Registry of Deeds, and said pipe water line shall at all points across said grantor's land be not less than ninety (90) feet northeasterly from the southwesterly boundry of said lot #3.

Being a right-of-way over the land conveyed to the grantors by deed of the grantees, dated December 27, 1954, recorded Rockingham County Registry of Deeds, Book 1340, Page 380.

The grantees, by the acceptance of this deed for themselves, their heirs, executors, administrators, and assigns, promise and agree that at the time of the original installation of said pipe line and any entry on the grantors' property for purposes of maintenance and/or repairs, to put the property back in good condition and to replace all shrubs, grass, loom, and otherwise put the property back to the same condition it was prior to the time of the repairs.

The Portsmouth Trust Company, holder of a mortgage deed from the grantors, dated December 27, 1954, recorded Rockingham County Registry of Deeds, book 1340, Page 382, in consideration of one dollar ($1.00) to it in hand paid, receipt whereof is hereby acknowledged, agrees with the grantors that its mortgage shall hereafter be subject to the within easement for a water pipe line.

PORTSMOUTH TRUST COMPANY

By: [signature]

State of New Hampshire
ROCKINGHAM ss

Personally appeared the above named Portsmouth Trust Company by its and acknowledged the foregoing to be its voluntary act and deed, before me,

[signature]

We, each being husband & wife ~~wife~~ ~~husband~~ release to said Grantee all rights of dower curtesy, and homestead and other interest therein.

WITNESS our hands and seals this 13 day of January ~~December~~ 1956 ~~1955~~.

Witness:

Eileen L. Hanford [signature]
to both

Edward J. Austin [signature]
Kathleen L. Austin [signature]

State of New Hampshire

ROCKINGHAM ss. January ~~December~~ 13, 1955

Then personally appeared the above named Edward J. Austin and Kathleen L. Austin and acknowledged the foregoing instrument to be their voluntary act and deed, before me

[signature]
~~Notary Public~~ — Justice of the Peace

Received and recorded Jan. 27, 10 A.M., 1956.

14.30

1451-257

WARRANTY DEED

1451 257

We, Edward T. Cook and Helen E. Cook, both

of Greenland, Rockingham County, State of New Hampshire, for consideration paid, grant to Rena M. Campbell

of Greenland, Rockingham County, State of New Hampshire, with WARRANTY covenants,

(Description and incumbrances, if any)

A certain tract or parcel of land with the buildings thereon, situate in Greenland, New Hampshire, and bounded and described as follows:

Beginning at a hub in the westerly sideline of Portsmouth Avenue distant one hundred fifty-five (155) feet northerly from the northerly side of the driveway leading to the premises now or formerly of Frederick A. and Lorree C. Stoddard; thence running north 67° 37' west by land now or formerly of Frank and Thelma McShane one hundred fifty and three tenths (150.3) feet to a hub; thence turning and running north 26° 12' east by land of said Stoddards about two hundred thirty-eight (238) feet to the brook; thence turning and running in a southerly and easterly direction by said brook about two hundred forty (240) feet to Portsmouth Avenue; thence turning and running south 26° 12' west by said Avenue about one hundred fifty-eight (158) feet to the point of beginning. Containing about twenty-two thousand five hundred (22,500) square feet.

Being the same premises conveyed to the grantors by deed of Edward J. Austin and Kathleen L. Austin dated September 22nd 1956, and recorded in Rockingham County Registry of Deeds in Book 1410, Page 159, on September 27th, 1956, in which we were erroneously described as Edward T. Cook and Helen A. Cook.

Excepting and reserving from the above conveyance a right of way for a water pipe line as described in a deed from Edward J. Austin and Kathleen L. Austin to Frank McShane, etal, dated January 13, 1956, and recorded in Rockingham County Registry of Deeds, Book 1383, Page 416.

We, Edward A. & Helen C. Cook wife & husband release to said Grantee all rights of dower & curtesy and homestead and other interest therein.

WITNESS our hands and seals this first day of November, 1957.

Witness:

Arthur J. Reinhart
to both

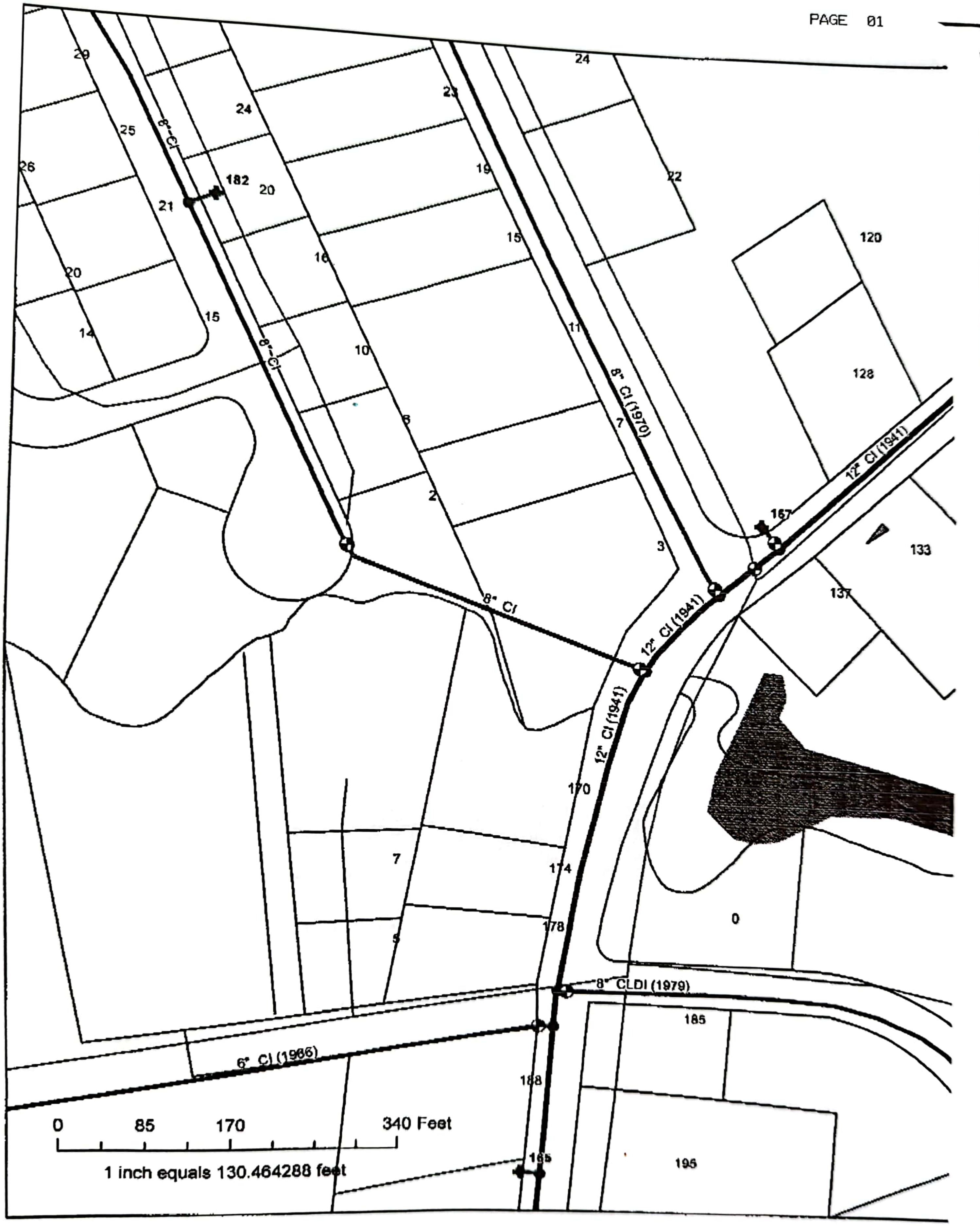
Edward A. Cook
Helen C. Cook

STATE OF NEW HAMPSHIRE
Rockingham, ss.
November 1, 1957

Edward A. Cook & Helen C. Cook
Personally appeared and acknowledged the foregoing instrument to be their voluntary act and deed.

Before me,

Arthur J. Reinhart
Justice of the Peace.


8" CI
8" CI
8" CI
8" CI (1970)
12" CI (1941)
12" CI (1941)
12" CI (1941)
8" CLDI (1979)
6" CI (1966)
0
85
170
340 Feet
1 inch equals 130.464288 feet

BK 3217 PG 2389

WARRANTY DEED

KNOW ALL MEN BY THESE PRESENTS BK 3217 PG 2389 ... G. Tobey, Trustee of Eastland Realty Trust of 67 Badgers Island, Kittery, ME, for consideration paid grant(s) to William Chapline and Sandra A. Chapline, husband and wife, of 170 Portsmouth Avenue, Greenland, NH 03840, as joint tenants with rights of survivorship, with WARRANTY COVENANTS:

A certain tract or parcel of land with the buildings thereon, situate in Greenland, County of Rockingham, State of New Hampshire and bounded and described :

Beginning at a hub in the westerly sideline of Portsmouth Avenue distant one hundred fifty-five (155) feet northerly from the northerly side of the driveway leading to the premises now or formerly of Frederick A. and Loree C. Stoddard; thence running North 67 degrees 37' West by land now or formerly of Frank and Thelma McShane one hundred fifty and three tenths (150.3) feet to a hub; thence turning and running North 26 degrees 12' East by land now or formerly of said Stoddards about two hundred thirty-eight (238) feet to the brook; thence turning and running in a southerly and easterly direction by said brook about two hundred forty (240) feet to Portsmouth Avenue; thence turning and running South 26 degrees 12' West by said Avenue about one hundred fifty-eight (158) feet to the point of beginning.

Containing about twenty-two thousand five hundred (22,500) square feet.

Excepting and reserving from the above conveyance a right of way ofor a water pipe line as described in a deed from Edward J. Austin and Kathleen L. Austing to Frank McShane, et al., dated January 13, 1956 and recorded in the Rockingham County Registry of deeds Book 1383, Page 416.

Meaning and intending to describe and convey the same premises conveyed to Thorton G. Tobey, Trustee of Eastland Realty Trust by deed of Thorton G. Tobey dated 4/24/86 recorded in Volume 2606, Page 1916, Rockingham County Registry of Deeds.

The property is not the residence of the grantor and is not subject to homestead rights.

Executed this 30th day of May, 1997.

[signature] Trustee

Thorton G. Tobey, Trustee of
Eastland Realty Trust

same

Eastland Realty Trust 2606-1916
Tobey 2449-0701
Thomits 2250-1882
Howard 2201-626
~~Campbell~~ Janaro 2017-497
Campbell 1957 1451-257

State of New Hampshire
County of Rockingham

Then personally appeared before me this May 30, 1997, the said Thorton G. Tobey, Trustee of the Eastland Realty Trust and acknowledged the foregoing to be their voluntary act and deed.

[signature]

~~Notary Public~~/Justice of The Peace
Commission expiration: 7/10/2001

NH Transfer Tax Amount

STATE OF NEW HAMPSHIRE
DEPARTMENT OF REVENUE ADMINISTRATION — REAL ESTATE TRANSFER TAX
1 THOUSAND 2 HUNDRED AND 30 DOLLARS
060317 272280 $1230.00

1451-257
1383-416
B 2442NR
2444 NR
03302

0025094

ROCKINGHAM COUNTY REGISTRY OF DEEDS
JUN 3 10 40 AM '97

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

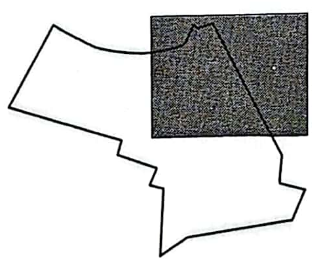
TOWN OF

GREENLAND, NEW HAMPSHIRE

ROCKINGHAM COUNTY

PANEL 2 OF 5

(SEE MAP INDEX FOR PANELS NOT PRINTED)



PANEL LOCATION

COMMUNITY-PANEL NUMBER

330210 0002 B

EFFECTIVE DATE:

MAY 17, 1989

Federal Emergency Management Agency

No! BM's on PLAN



5/12/05

Ralph Sanders D.O.T called back

No plans

R.O.W. prescriptive

WASTEWATER ALTERNATIVES, INC.

37 Champney St. Groton, MA 01450

Telephone: (978) 448-2415 Toll Free: (866) 900-2415 Fax: (978) 448-2911

http://www.thecleansolution.com email: harolddavis@mac.com

July 28, 2005

Mr. William Chapline
170 Portsmouth Ave.
Greenland, NH 03840

Dear Mr. Chapline

Thank you for choosing to use THE CLEAN SOLUTION™ alternative septic system for your home at 170 Portsmouth Ave in Greenland, NH. Attached is a sales agreement for the system. This agreement describes what you are buying, the required maintenance, your warranty, the price and the terms of sale.

There are three copies:

1. The complete copy is for your records.
2. Anne Bialobrzeski of STOCKTON SERVICES will send one signed white copy to NHDES with your subsurface disposal plan submittal. They need this for their records so that they know that you are aware of the required maintenance.
3. Please sign the second white copy and return it to me with the initial payment about <u>three weeks before the actual installation</u>. I would also like to know the name of your installer at this time so that I can coordinate with him.

I look forward to working with you. Please give me a call me if you would like to discuss the system or the sales agreement.

Sincerely,

Harold E Davis

Harold E. Davis

WASTEWATER ALTERNATIVES, INC.
37 Champney St. Groton, MA 01450

Telephone: (978) 448-2415 Fax: (978) 448-2911

SALES AGREEMENT

July 28, 2005

BUYER:
William Chapline
170 Portsmouth Ave.
Greenland, NH 03840

SITE:
170 Portsmouth Ave.
Greenland, NH 03840

SELLER:
Wastewater Alternatives, Inc.
37 Champney St
Groton, MA 01450

Wastewater Alternatives, Inc. (WAI) agrees to supply a **Model 250ST3 CLEAN SOLUTION™** Sewage Treatment System to the buyer installed at the above site in accordance with the attached specifications and the subsurface disposal plan submitted by Stockton Services, as approved by NHDES. The buyer is responsible for retaining the licensed designer, obtaining the approved plan, and hiring a qualified installer. This sale is subject to two important conditions:

1. **Should the above property be sold, this agreement should be transferred to the new buyer and will become binding on both the seller and the new owner[s].**
2. **This agreement contains a maintenance schedule. Failure to perform this maintenance could result in premature failure of the dispersal field. In this event it will be the owners responsibility to repair the field.**

WAI will provide and install as shown in the accompanying sketch and specifications:

1. A 2000 gal 3-compartment, standard duty A.J. Foss Inc., concrete tank to function as a septic tank, aerobic treatment tank and a settling tank.
2. 30 cu ft of plastic media
3. A 3.0 scfm compressor
4. All necessary internal components
5. The price <u>does not</u> include excavation, dispersal field, or connections from the house to THE CLEAN SOLUTION to the dispersal field or a sump pump.

Placement of the compressor will be mutually determined by the owner and WAI. A 115 volt outlet capable of supplying 1 amp [about the equivalent of a 100 watt light bulb] continuously will be required near the compressor. Should an external housing be required to protect the compressor, it will also be billed at direct costs. Additional wiring or wiring required to address local or state electical code issues will be billed at direct costs.

Should a drive-on installation be required, the additional costs for H-20 tanks and steel man hole covers will be billed at direct costs.

MAINTENANCE

The following maintenance is required every 2 1/2 years:

1. **Pump out both the settling and septic tanks**
2. **Rebuild compressor**
3. **Inspect and take corrective action, if necessary:**

a] media	**if plugged, backwash with air**
b] sludge in BioCon	**pump BioCon tank if excessive**
c] diffuser	**replace if pressure drop too great**

A maintenance agreement is available for performing items 2 and 3 from PUMP SYSTEMS INC. POB 6101, WEST FRANKLIN, NH 03235, TEL# 603-934-7100. You can obtain a sample agreement by contacting them directly. Their service will include a detailed inspection of your system, replacement of any failed items and either a new rebuilt compressor or an on site rebuild of yours [their option]. Tank pumping is not included in the price and must be arranged by you just prior to the scheduled maintenance appointment.

Based on the inspection findings at the first scheduled maintenance, the maintenance schedule may be modified by mutual consent and any changes will be reduced to writing. In the absence of a written modified maintenance schedule, the above schedule must continue to be performed by the buyer.

For a period of 2 years, WAI will warrant the system and repair any malfunction, including parts and labor, at no cost to you. Your responsibility during this period is to perform the required maintenance and to notify WAI of any failure. Failure to perform either of these items will void this warranty and result in you being billed for repair costs. This warranty also does not cover damage caused by unreasonable use or acts of God.

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES. ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY OR OTHERWISE, APPLICABLE TO THE SEWAGE TREATMENT SYSTEM SHALL BE LIMITED IN DURATION TO ONE YEAR.

WASTEWATER ALTERNATIVES SHALL NOT BE LIABLE FOR ANY DIRECT OR INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES. NOR, SHALL WASTEWATER ALTERNATIVE'S LIABILITY UNDER THIS WARRANTY EXCEED THE PRICE PAID BY THE BUYER.

PERFORMANCE SPECIFICATIONS:

The system is warranted to discharge clean, odor free water to the dispersal field, equivalent or better than that obtained from a municipal system with secondary treatment (30ppm BOD5, 30ppm SS).

WASTEWATER ALTERNATIVES, INC.
37 Champney St. Groton, MA 01450

PAYMENT

The agreed upon price for the WAI equipment and services detailed in this agreement is $5,900.00.

Payment is requested as follows:
$3,000.00 upon signing this agreement
$2,900.00 immediately upon state inspection or start-up; whichever occurs later.
Ownership will transfer to the buyer upon final payment.

THIS PRICE IS VALID FOR 60 DAYS FROM THE DATE OF THIS DOCUMENT.

DELIVERY

WAI will be prepared to install the system about 3 weeks after you have chosen an installer and returned a signed copy of this agreement, along with the initial payment, to me. **It is important that I be able to coordinate with the installer, so I should be notified of his name and telephone number**.

RIGHTS TO DATA AND ACCESS TO THE SYSTEM

WAI reserves the right of reasonable access to collect data, modify, maintain and repair THE CLEAN SOLUTION and its subsystems. WAI will retain all data collected and the rights to it.

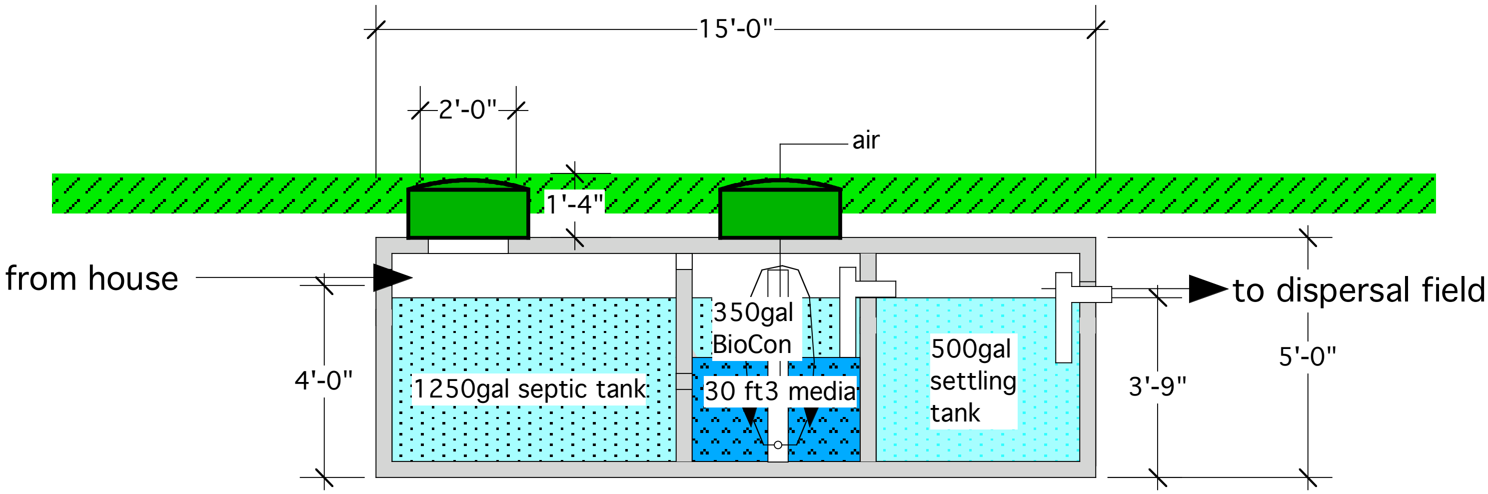
TRADE SECRETS

THE CLEAN SOLUTION is the result of the expenditure of much effort and money. The design of the components and operational cycle are the intellectual property of WAI and may not be revealed without written permission.

ACCEPTED:

BUYER:	SELLER:
	Harold E Davis
	Wastewater Alternatives, Inc Harold E. Davis, President
Date:	Date: July 28,2005

MODEL 250ST3 CLEAN SOLUTION™ SYSTEM
FOR
WILLIAM CHAPLINE
GREENLAND, NH



Uses A J Foss 3 compartment tank - 15'lx6'6"wx5'h

Tank from:
A. J. Foss Inc.
Farmington, NH 03835
Tel# 603-755-2515

NOTES:

1. SETTLING/PUMP TANK MUST BE PUMPED PUMPED EVERY 2.5 YEARS
2. TANK IS NOT SUITABLE FOR DRIVE ON INSTALLATION
3. PLASTIC RISERS WILL BE PROVIDED TO SUIT SITE

TITLE	date 7/28/05	WASTEWATER ALTERNATIVES, INC.
Model 250ST3 Single Tank Clean Solution	rev standard	37 Champney St. Groton, MA 01450 978-448-2415

CLEAN SOLUTION™ SYSTEM SPECIFICATIONS

Model	Max daily flow per NHDES(1) gal/day	Max o2 req'd(3) #/day	Compressor rating - free flow scfm	Compressor flow @ 3.5' head scfm	Max o2 transferred @5% eff(4) #/day	Power consumption watts	Volume of plastic media in BioCon cu ft	Approx area of media in BioCon sq ft	Minimum dispersal field size sq ft
1,2, or 3 BEDROOM HOUSE									
250	450	0.33	3.0	2.8	3.0	80	30	900	75
	uses a 1000 gal 2 compartment cement tank								
250PT	450	0.33	3.0	2.8	3.0	80	30	900	75
	uses a 1050 gal 2 compartment plastic tank								
250ST3	450	0.33	3.0	2.8	3.0	80	30	900	75
includes septic tank	**uses a uses a 3 compartment cement tank that includes a 1250 gal septic tank, a 350 gal BioCon and a 500 gal pump/settling tank**								
4 BEDROOM HOUSE									
250	600	0.50	3.0	2.8	3.0	80	30	900	100
	uses a 1000 gal 2 compartment cement tank								
250PT	600	0.50	3.0	2.8	3.0	80	30	900	100
	uses a 1050 gal 2 compartment plastic tank								
250ST4	600	0.50	3.0	2.8	3.0	80	30	900	100
includes septic tank	**uses a uses a 3 compartment cement tank that includes a 1600 gal septic tank, a 450 gal BioCon and a 500 gal pump/settling tank**								
TYPICAL LARGE SYSTEM DESIGNS									
600	1200	1.00	3.0	2.8	3.0	80	35	1050	200
	uses a 1000 gal 2 compartment cement tank plus a 500 gal pump tank [if required]								
2000	4000	3.30	3@3.0	8.4	9.6	240	150	4500	700

NOTES:

[1] Models 250 &250PT are identical for 3 & 4 bedroom homes except for the dispersal field size

[2] Specifications for Models 500 and 2000 are only typical values. <u>All models larger than Model 250 will be proposed on an individual basis - based on both flow and BOD.</u> WAI has provided single systems capable of accommodating over 60 houses.

(3) Assumes typical effluent from septic tank is 200ppm BOD.

(4) Assumes that 5% of the O2 available in the air input is transferred into the water.

WASTEWATER ALTERNATIVES, INC.
37 Champney St. Groton, MA 01450
978-448-2415

PRICES

Model	without sump pump	with sump pump (2)	comments
250	$4,700	$5,700	
250PT	$5,000	$6,000	plastic tank
250ST3	$5,900	$6,900	integral septic tank
250ST4	$6,100	$7,100	integral septic tank
600 (1)	$5,100	$6,700	uses separate pump tank
2000 (1)	$14,500	$16,200	uses separate pump tank

(1) These are typical prices for reference. Any system larger than a Model 250 is custom designed and priced.
(2) Prices include a standard sump pump - high head pumps for severe elevations are extra.
[3] Prices are subject to change without notice

Prices include:

1. A BioCon aeration tank with plastic media, settling tank, tanks set in holes provided by the installer, all internal plumbing, and an installed air supply system,
2. If a sump pump is specified, an installed sump pump with necessary floats and alarms is provided. This includes wiring up to 50' to 2 empty circuit breakers in the existing house service. All wiring will be done by a NH licensed electrician.

Prices do not include:

The services of a designer or installer, a septic tank [unless integral to the system], excavation, dispersal field, connections from the septic tank to THE CLEAN SOLUTION and to the dispersal field, additional wiring, and drive on installations.

MAINTENANCE

The following maintenance is required every 2 1/2 years:

1. Pump out both the settling and septic tanks

2. Rebuild compressor

3. Inspect and take corrective action, if necessary:

a] media	if plugged, backwash with air
b] sludge in BioCon	pump BioCon tank if excessive
c] diffuser	replace if pressure drop too great

A maintenance agreement is available for performing items 2 and 3 from PUMP SYSTEMS INC. POB 6101, WEST FRANKLIN, NH 03235, TEL# 603-934-7100. You can obtain a sample agreement by contacting them directly. Their service will include a detailed inspection of your system, replacement of any failed items and either a new rebuilt compressor or an on site rebuild of yours [their option]. Tank pumping is not included in the price and must be arranged by you just prior to the scheduled maintenance appointment.

Based on the inspection findings at the first scheduled maintenance, the maintenance schedule may be modified by mutual consent and any changes will be reduced to writing. In the absence of a written modified maintenance schedule, the above schedule must continue to be performed by the buyer.

COMPREHENSIVE WARRANTY

For a period of 2 years, WAI will warrant the system and repair any malfunction, including parts and labor, at no cost to you. Your responsibility during this period is to perform the required maintenance and to notify WAI of any failure.

WASTEWATER ALTERNATIVES, INC.

37 Champney St. Groton, MA 01450

Telephone: (978) 448-2415 **Fax: (978) 448-2911**

THEORY of THE CLEAN SOLUTION

Conventional small to mid- size sewage systems normally use a septic tank followed by a leach field to first provide anaerobic (without air) and then aerobi (with air) treatment of the effluent. Septic tanks work well for capturing and digesting the solids which are anaerobically fermented over a long period of tim dissolving the solids into the liquid waste. However, a septic tank is not designe to treat the contaminants which dissolve in the liquids. These are treated aerobically in the leach field. Municipal systems, which handle very large volumes of wastes, use much different equipment to accomplish the same biological functions: primary sedimentation tanks remove solids, and a subsequent aerobic system treats the contaminants dissolved in the liquids. Settled solids are removed from municipal primary and secondary facilities for further treatment.

All aerobic treatment systems, whether a conventional leach field, a municipal treatment plant, or *THE CLEAN SOLUTION* , depend on bacteria to purify the effluent from a solids settling system. In order for bacteria to reproduce, they require energy (food) and air. By using the contaminates in the effluent as food and atmospheric air, the bacteria metabolize the dissolved solids to carbon dioxide, water and sludge (colonies of bacteria). The aerobic bacteria also conve ammonia compounds to nitrates.

A large number of bacteria need to come in contact with the food sources in order to purify an effluent. Treatment systems utilize different methods to provide the large necessary population. A municipal system mechanically stirs u the bacteria in the secondary treatment process so that they will contact their foo and not settle out of the effluent. In a leach field, the sludge (biomat) that forms at the ground interface is a large colony of bacteria through which the dissolved solid stream flows. In the *THE CLEAN SOLUTION* the bacteria collect in a thin film on the plastic media in **WAI'S** proprietary *BioCon™* biological contactor, and the effluent is recirculated over them several times.

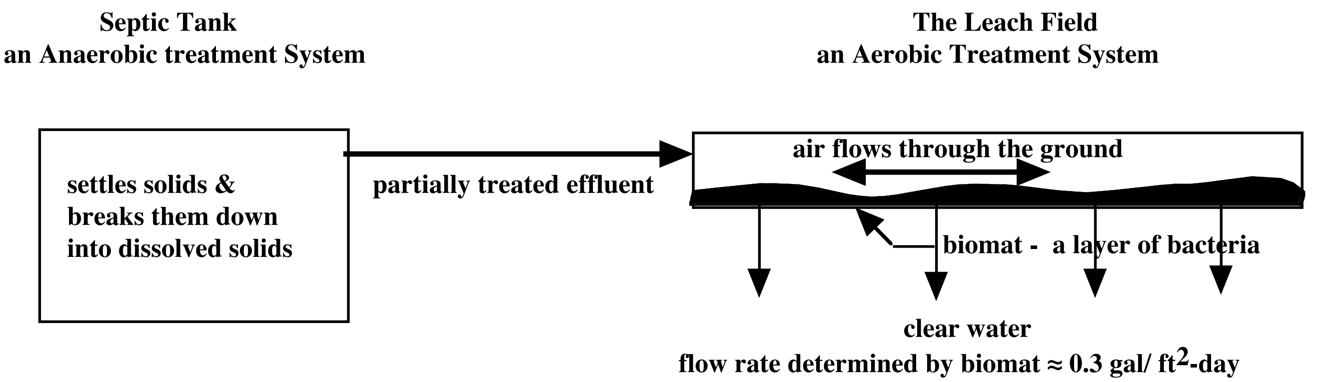
THE CLEAN SOLUTION uses the same biological process as a municipal secondary treatment plant using the activated sludge process. Solids are settled out, air is added for respiration for bacteria in the *BioCon*. This allows the bacteria to convert the carbonaceous dissolved solids to carbon dioxide, water an sludge and the urea and ammonia to nitrates and sludge. The sludge created is settled for periodic removal from the system, and a clean, odorless effluent is discharged to the dispersal field.

The major difference between a septic system and *THE CLEAN SOLUTION* is where the bacteria(sludge) collect. In a conventional system, the sludge forms in the bottom of the leach field and restricts the effluent flow enough so that the bacteria has time to act, This flow rate through the sludge determines the require field size. In *THE CLEAN SOLUTION, t*he sludge is formed in the *BioCon,* and a clean effluent is discharged to the dispersal field. This field can be very small because there is no need for it to provide further treatment.

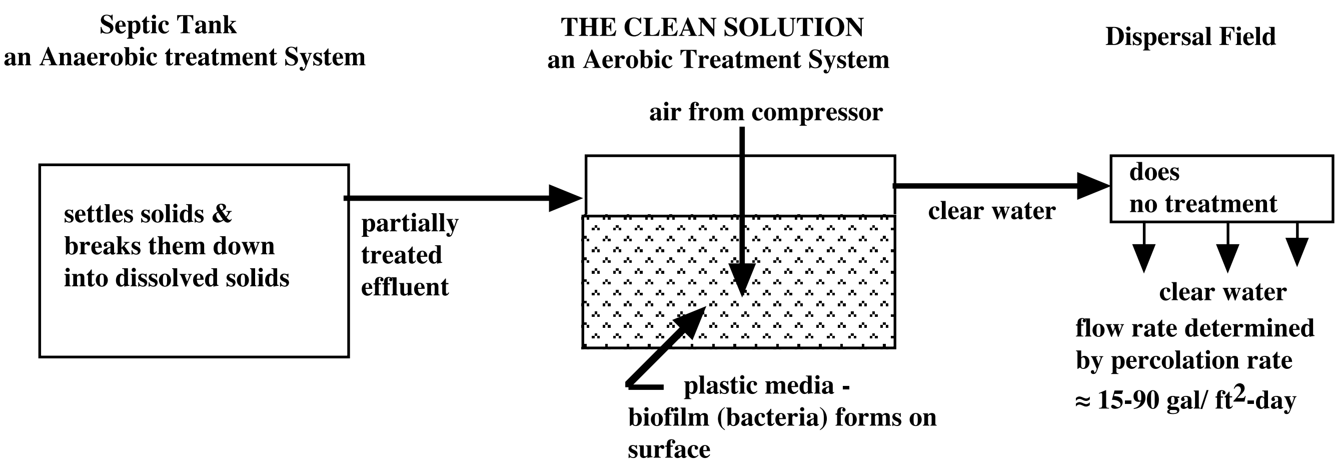
WASTEWATER ALTERNATIVES, INC.
37 Champney St. Groton, MA 01450

SIMPLIFIED OPERATIONAL SCHEMATIC OF IN-GROUND AEROBIC TREATMENT SYSTEMS

Conventional System



THE CLEAN SOLUTION System



In all aerobic treatment systems, bacteria does the cleansing of the effluent by using the carbon sources as food and air for oxidization thereby producing carbon dioxide, water and more bacteria. You see groups of this new bacteria as biomat or sludge. THE CLEAN SOLUTION™ performs exactly the same functions as the leach field - except it accomplishes them mechanically in a tank. The square footage of plastic media in THE CLEAN SOLUTION pretty much equals the square footage of a leach field for the same flow. Since THE CLEAN SOLUTION discharges clear water, just like the bottom of a leach field, the only purpose of the dispersal field is to disperse it into the ground for final pathogen removal.